

0590
0507

A TO



OIPE

ENTERED

RAW SEQUENCE LISTING

DATE: 05/02/2002

PATENT APPLICATION: US/09/879,572A

TIME: 16:45:39

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

4 <110> APPLICANT: RAMSINGH, ARLENE I.
5 HALIM, SADIA S.
7 <120> TITLE OF INVENTION: COXSACKIEVIRUS B4 EXPRESSION VECTORS AND USES THEREOF
9 <130> FILE REFERENCE: 0189-2001
11 <140> CURRENT APPLICATION NUMBER: 09/879,572A
C--> 12 <141> CURRENT FILING DATE: 2002-04-19
14 <160> NUMBER OF SEQ ID NOS: 32
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 16
20 <212> TYPE: PRT
21 <213> ORGANISM: Unknown Organism
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of Unknown Organism: Peptide of the
25 ryanodine receptor (RyR)
27 <400> SEQUENCE: 1
28 Arg Ala Glu Asn Glu Lys Asp Ala Thr Thr Glu Lys Asn Lys Lys Arg
29 1 5 10 15
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 14
34 <212> TYPE: PRT
35 <213> ORGANISM: Unknown Organism
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Description of Unknown Organism: Chimeric
39 ova/virus peptide
41 <400> SEQUENCE: 2
42 Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala
43 1 5 10
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 17
48 <212> TYPE: PRT
49 <213> ORGANISM: Unknown Organism
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Description of Unknown Organism: OVA 323-339
54 <400> SEQUENCE: 3
55 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
56 1 5 10 15
58 Arg
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 6
63 <212> TYPE: PRT
64 <213> ORGANISM: Cocksackievirus
66 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 05/02/2002

PATENT APPLICATION: US/09/879,572A

TIME: 16:45:39

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

67 Ile Ser Gln Ala Val His
68 1 5
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Cocksackievirus
76 <400> SEQUENCE: 5
77 Ile Ser Gln Ala Val His Ala Ala His Ala
78 1 5 10
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 14
83 <212> TYPE: PRT
84 <213> ORGANISM: Cocksackievirus
86 <400> SEQUENCE: 6
87 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu
88 1 5 10
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 16
93 <212> TYPE: PRT
94 <213> ORGANISM: Cocksackievirus
96 <400> SEQUENCE: 7
97 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
98 1 5 10 15
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 6
103 <212> TYPE: PRT
104 <213> ORGANISM: Cocksackievirus
106 <400> SEQUENCE: 8
107 Val His Ala Ala His Ala
108 1 5
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 9
113 <212> TYPE: PRT
114 <213> ORGANISM: Human immunodeficiency virus
116 <400> SEQUENCE: 9
117 Ile Ala Gly Thr Thr Ser Thr Leu Gln
118 1 5
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 9
123 <212> TYPE: PRT
124 <213> ORGANISM: Human immunodeficiency virus
126 <400> SEQUENCE: 10
127 Ser Ser Ile Leu Asp Ile Arg Gln Gly
128 1 5
131 <210> SEQ ID NO: 11
132 <211> LENGTH: 10
133 <212> TYPE: PRT
134 <213> ORGANISM: Human immunodeficiency virus
136 <400> SEQUENCE: 11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/879,572A

DATE: 05/02/2002

TIME: 16:45:39

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

```

137 Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu
138   1           5           10
141 <210> SEQ ID NO: 12
142 <211> LENGTH: 9
143 <212> TYPE: PRT
144 <213> ORGANISM: Human immunodeficiency virus
146 <400> SEQUENCE: 12
147 Ile Ala Gly Thr Thr Ser Thr Leu Gln
148   1           5
151 <210> SEQ ID NO: 13
152 <211> LENGTH: 9
153 <212> TYPE: PRT
154 <213> ORGANISM: Human immunodeficiency virus
156 <400> SEQUENCE: 13
157 Ser Ser Ile Leu Asp Ile Arg Gln Gly
158   1           5
161 <210> SEQ ID NO: 14
162 <211> LENGTH: 10
163 <212> TYPE: PRT
164 <213> ORGANISM: Human immunodeficiency virus
166 <400> SEQUENCE: 14
167 Asn Glu Glu Ala Ala Glu Trp Asp Arg Leu
168   1           5           10
171 <210> SEQ ID NO: 15
172 <211> LENGTH: 42
173 <212> TYPE: DNA
174 <213> ORGANISM: Coxsackievirus
176 <220> FEATURE:
177 <221> NAME/KEY: CDS
178 <222> LOCATION: (1)..(42)
180 <400> SEQUENCE: 15
181 cag gag atg tcc acc gcc act aac tca gat gtt cca gtg cag           42
182 Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln
183   1           5           10
186 <210> SEQ ID NO: 16
187 <211> LENGTH: 14
188 <212> TYPE: PRT
189 <213> ORGANISM: Coxsackievirus
191 <400> SEQUENCE: 16
192 Gln Glu Met Ser Thr Ala Thr Asn Ser Asp Val Pro Val Gln
193   1           5           10
196 <210> SEQ ID NO: 17
197 <211> LENGTH: 42
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
203     DNA vector
205 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 05/02/2002

PATENT APPLICATION: US/09/879,572A

TIME: 16:45:39

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

```

206 <221> NAME/KEY: CDS
207 <222> LOCATION: (1)..(42)
209 <400> SEQUENCE: 17
210 cag gcc ttg tcc acc gcc act aac tca gag gcg cca gtg cag 42
211 Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln
212 1 5 10
215 <210> SEQ ID NO: 18
216 <211> LENGTH: 14
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
222 peptide
224 <400> SEQUENCE: 18
225 Gln Ala Leu Ser Thr Ala Thr Asn Ser Glu Ala Pro Val Gln
226 1 5 10
229 <210> SEQ ID NO: 19
230 <211> LENGTH: 54
231 <212> TYPE: DNA
232 <213> ORGANISM: Coxsackievirus
234 <220> FEATURE:
235 <221> NAME/KEY: CDS
236 <222> LOCATION: (1)..(54)
238 <400> SEQUENCE: 19
239 cag gag atg ata tct caa gct gtc cat gca gca cat gca gag gcg cca 48
240 Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro
241 1 5 10 15
243 gtg cag 54
244 Val Gln
247 <210> SEQ ID NO: 20
248 <211> LENGTH: 18
249 <212> TYPE: PRT
250 <213> ORGANISM: Coxsackievirus
252 <400> SEQUENCE: 20
253 Gln Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro
254 1 5 10 15
256 Val Gln
259 <210> SEQ ID NO: 21
260 <211> LENGTH: 19
261 <212> TYPE: PRT
262 <213> ORGANISM: Coxsackievirus
264 <400> SEQUENCE: 21
265 Glu Met Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ala Pro Val
266 1 5 10 15
268 Gln Thr His
271 <210> SEQ ID NO: 22
272 <211> LENGTH: 33
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 05/02/2002

PATENT APPLICATION: US/09/879,572A

TIME: 16:45:39

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
278 vector
280 <220> FEATURE:
281 <221> NAME/KEY: CDS
282 <222> LOCATION: (1)..(33)
284 <400> SEQUENCE: 22
285 atg acg cgt gct cta ttc caa gga aca cag gtg 33
286 Met Thr Arg Ala Leu Phe Gln Gly Thr Gln Val
287 1 5 10
290 <210> SEQ ID NO: 23
291 <211> LENGTH: 11
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297 peptide
299 <400> SEQUENCE: 23
300 Met Thr Arg Ala Leu Phe Gln Gly Thr Gln Val
301 1 5 10
304 <210> SEQ ID NO: 24
305 <211> LENGTH: 33
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
311 vector
313 <220> FEATURE:
314 <221> NAME/KEY: CDS
315 <222> LOCATION: (1)..(33)
317 <400> SEQUENCE: 24
318 atg acg cgt gct cta ttc caa gga gca cag gtg 33
319 Met Thr Arg Ala Leu Phe Gln Gly Ala Gln Val
320 1 5 10
323 <210> SEQ ID NO: 25
324 <211> LENGTH: 11
325 <212> TYPE: PRT
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
330 peptide
332 <400> SEQUENCE: 25
333 Met Thr Arg Ala Leu Phe Gln Gly Ala Gln Val
334 1 5 10
337 <210> SEQ ID NO: 26
338 <211> LENGTH: 54
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence
342 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/879,572A

DATE: 05/02/2002

TIME: 16:45:40

Input Set : A:\01892001.app

Output Set: N:\CRF3\05022002\I879572A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date